

CLAIMS

What is claimed is:

1. A method for signaling code and timeslot assignments to support a communication of a user in a wireless hybrid time division multiple access (TDMA)/code division multiple access (CDMA) communication system comprising at least one transmitter and at least one receiver, whereby the system supports wireless RF communications utilizing at least one timeslot from a predetermined sequence of timeslots and at least one code from a predetermined sequence of codes, the method comprising:

at the transmitter:

selecting at least one timeslot;

for said at least one selected timeslot, selecting at least one code, and if more than one code is selected, selecting consecutive codes from said predetermined sequence; and

signaling an identifier of said at least one timeslot and a first and last code of said consecutive codes; and

at the receiver:

receiving the signaled identifier; and

using said timeslot and said consecutive codes to support the communication.

2. The method of claim 1 wherein the last code is identified by an identifier associated with the last code.

3. The method of claim 1 wherein the last code is identified by the number of consecutive codes.

4. The method of claim 1 wherein each selected timeslot is potentially assigned a different set of consecutive codes and the signaled identifier comprises an identifier of a first and last code of each selected timeslots.

5. The method of claim 1 further comprising selecting a plurality of timeslots wherein each selected timeslot is assigned the same consecutive codes.

6. The method of claim 5 further comprising signaling a timeslot identifier for each selected timeslot.

7. The method of claim 6 wherein said timeslot identifier is a set of bits, each bit associated with one timeslot.

8. The method of claim 1 further comprising selecting a plurality of timeslots; whereby said plurality of selected timeslots are consecutive and the same codes are assigned to each selected timeslot; and
signaling an identifier of a first and last code of each selected timeslot.

9. The method of claim 1 wherein the communication is a downlink communication.

10. The method of claim 1 wherein the hybrid TDMA/CDMA communication system is a hybrid time division duplex communication system using CDMA.

11. A method for signaling code/timeslot assignments to support a communication of a user in a wireless hybrid time division multiple access (TDMA)/code division multiple access (CDMA) communication system, the method comprising:

selecting at least one timeslot to support the communication;
for each selected timeslot, selecting all codes of the selected timeslot to support the communication;
signaling an identifier of said one timeslot; and
using the signaled identifier and said at least one timeslot to support the communication.

12. The method of claim 10 wherein said identifier is one bit for each timeslot.

13. The method of claim 10 further comprising:
providing a predetermined sequence of timeslots; whereby said selected timeslots are consecutive and the at least one selected timeslot identifier comprises an indicator of a first and last timeslot of the consecutive timeslots.

14. The method of claim 12 wherein the last timeslot identifier is an identifier associated with the last timeslot.

15. The method of claim 12 wherein the last timeslot identifier is an identifier associated with a number of timeslots of the consecutive timeslots.

16. A method for signaling code and timeslot assignments to support a communication of a user in a wireless hybrid time division multiple access (TDMA)/code division multiple access (CDMA) communication system comprising at least one transmitter and at least one receiver, whereby the system supports wireless RF communications utilizing at least one timeslot from a plurality of timeslots and at least one code from a plurality of codes, the method comprising:

at the transmitter:

selecting at least one timeslot;

for said at least one selected timeslot, selecting at least one code;

signaling a first identifier of said at least one timeslot; and

signaling a second identifier of said at least one code; and

at the receiver:

receiving the signaled identifiers; and

using said timeslot and said codes associated with said first and second identifier to support the communication.

17. The method of claim 1 wherein said first and second identifiers are combined into a single identifier.

18. A method for signaling code/timeslot assignments to support a communication of a user in a wireless hybrid time division multiple access (TDMA)/code division multiple access (CDMA) communication system using a plurality of timeslots, each timeslot having a plurality of codes, the method comprising:

consecutively numbering the codes from all timeslots;

selecting the desired codes to support the communication;

signaling an identifier of the desired codes; and

receiving the signaled identifier and using the timeslots and codes associated with said identifier to support the communication.

19. The method of claim 18 wherein said identifier comprises an indicator of a first and last code of said selected codes.

20. The method of claim 18 wherein said identifier comprises an indicator of a first code and the number of said selected codes.

21. A method for signaling code and timeslot assignments to support a communication of a user in a wireless hybrid time division multiple access (TDMA)/code division multiple access (CDMA) communication system comprising at least one transmitter and at least one receiver, whereby the system supports wireless RF communications utilizing at least one timeslot from a predetermined sequence of timeslots and at least one code from a predetermined sequence of codes, the system comprising:

at the transmitter:

selecting at least one timeslot;

signaling an identifier of said at least one timeslot; and

at the receiver:

receiving said identifier; and

using said timeslot associated with said identifier the codes within said timeslot to support the communication.

22. The method of claim 21 whereby if a plurality of timeslots are selected, the timeslots are consecutive.

23. The method of claim 21 further comprising signaling the number of codes to be used for each selected timeslot.

24. A system for signaling code and timeslot assignments to support a communication of a user in a wireless hybrid time division multiple access (TDMA)/code division multiple access (CDMA) communication network comprising at least one transmitter and at least one receiver, whereby the network supports wireless RF

communications utilizing at least one timeslot from a predetermined sequence of timeslots and at least one code from a predetermined sequence of codes, the network comprising:

at the transmitter:

means for selecting at least one timeslot;

means for signaling an identifier of said at least one timeslot; and

at the receiver:

means for receiving said identifier; and

means for using said timeslot associated with said identifier the codes within said timeslot to support the communication.